

IN THE CLAIMS:

21. (Currently Amended) A method of installing a liner in a drilled bore lined with casing, comprising:

running the liner into the bore such that the liner is positioned in an at least partially overlapping relation with the casing; and

plastically deforming a portion of the liner to expand the portion of the liner into the overlapping casing resulting in a subsequent increase in inner and outer diameters of the liner and a corresponding increase in diameter of the casing.

Claims 22-23. (Canceled)

24. (Previously Presented) The method of claim 21, wherein the portion of liner is deformed to create a pressure-tight seal between the liner and casing.

25. (Previously Presented) The method of claim 24, wherein the seal formed is a metal-to-metal seal.

26. (Previously Presented) The method of claim 24, further comprising:
providing a portion of liner to be expanded with a band of relatively soft metal which is plastically deformed during the expansion of the liner portion.

27. (Previously Presented) The method of claim 21, further comprising:
further expanding the portion of the liner so as to radially deform a portion of the overlapping casing adjacent to the expanded portion of liner.

28. (Previously Presented) The method of claim 21, further comprising deforming the casing to define an enlarged inner diameter portion prior to running the liner into the bore.

29. (Previously Presented) The method of claim 27, wherein deformation of the portion of the casing is plastic deformation.
30. (Previously Presented) The method of claim 27, wherein deformation of the portion of the casing is elastic deformation.
31. (Previously Presented) The method of claim 21, wherein the liner is initially secured relative to the casing by deforming the liner by radially extending circumferentially spaced areas of the liner to form corresponding areas of interference fit between the liner and the casing.
32. (Canceled).
33. (Previously Presented) The method of claim 21, further comprising:
cementing the liner in the bore.
34. (Previously Presented) The method of claim 33, wherein the step of cementing is achieved by:
pumping cement from a surface to the lower end of the liner,
directing the cement into the annulus between the liner and the bore wall, and
displacing fluid from the annulus.
35. (Previously Presented) The method of claim 34, wherein the portion of the liner is expanded once the cement is in place in the annulus.
36. (Previously Presented) The method of claim 35, further comprising the step of:
rotating the liner as the cement is passed into the annulus.
37. (Previously Presented) The method of claim 21, wherein the liner is run into the bore on a running tool carrying an expander including a body and at least one radially

extendable member mounted thereon, the running tool being rotatable to move the member around the portion of the liner to create the desired deformed portion.

38. (Currently Amended) A method of installing a liner in a drilled bore lined with casing, comprising:

providing a liner having a selected yield strength;

running the liner into the bore such that the liner is positioned in partially overlapping relation with the surrounding casing; and

applying a radial expansion force against an inner diameter of the liner that exceeds the liner's yield strength so as to expand the liner into a portion of the surrounding casing;

continuing to apply a radial expansion force against the inner diameter of the liner so as to cause elastic deformation of an adjacent portion of the surrounding casing; and

reducing the radial expansion force to allow the deformed adjacent portion of the surrounding casing to relax, thereby providing an interference fit between an overlapping portion of the liner and casing.

Claims 39-41. (Canceled)

42. (Currently Amended) The method of claim ~~[[41]]~~ 45, wherein the first tubular is a casing, and the second tubular is a liner.

43. (Canceled)

44. (Previously Presented) The method of claim 42, wherein:

the step of expanding a portion of the liner into an overlapping portion of the casing is accomplished by actuating and rotating a rolling expander tool so as to apply a radially outward force; and

the step of permitting at least a degree of elastic relaxation of the overlapping portion of the first tubular is accomplished by relieving the radially outward force applied by the rolling expander tool.

45. (New) A method of coupling first and second tubulars in a drilled bore, comprising:

- providing a first tubular in the bore;

- running a second tubular into the bore to locate a portion of the second tubular within an overlapping portion of the first tubular; and

- expanding a portion of the second tubular overlapping with the first tubular beyond a yield point of the second tubular so as to cause plastic deformation, and so as to also expand a portion of the first tubular surrounding the expanded portion of the second tubular into elastic deformation,

- wherein at least a degree of elastic relaxation of the overlapping portion of the first tubular provides an interference fit with the second tubular for hanging support of the second tubular.